Brookline Street Reconstruction

44

ONE
WAY

You Choose

SPEED
LIMIT
40

Ready,

Set.

Go…..!

Ready,
Set,
Go…..!

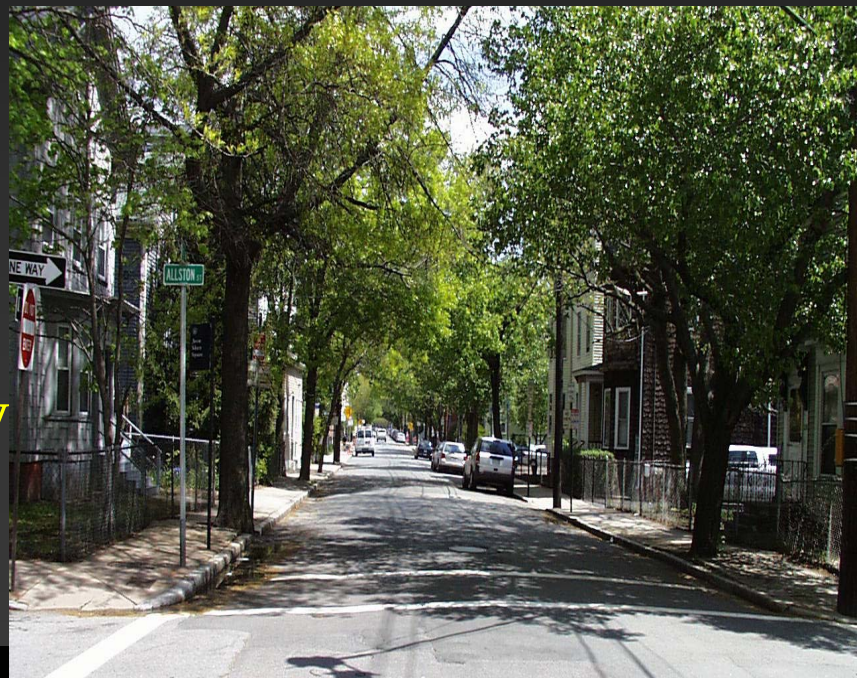
24
FITNESS

500 SL
Y WALK

Streetscape Improvements

Goals For Brookline Street

- Improve Safety & Comfort for All Users
- Reduce Traffic Speeds
- Improve Pedestrian Experience
- Improve Conditions for Bicycling
- Improve Pedestrian Crossings
- Ensure Safe and Convenient Bus Travel
- Balance Parking and Visibility at Corners



Crossing the Street Should be Safe and Comfortable

Crosswalk Visibility

International or “zebra” striping is best

Drainage:

Make sure
it works!

Improve Conditions for Cycling

Safe and Convenient Bus Travel bus travel

Review Bus Stop Conditions

Transit: Provide Easy, Safe Crossings

Improve Sight Lines at Intersections

Rationalize signs and avoid visual clutter

Increase
Streetscape
Amenities

Trees
Benches
Pavers

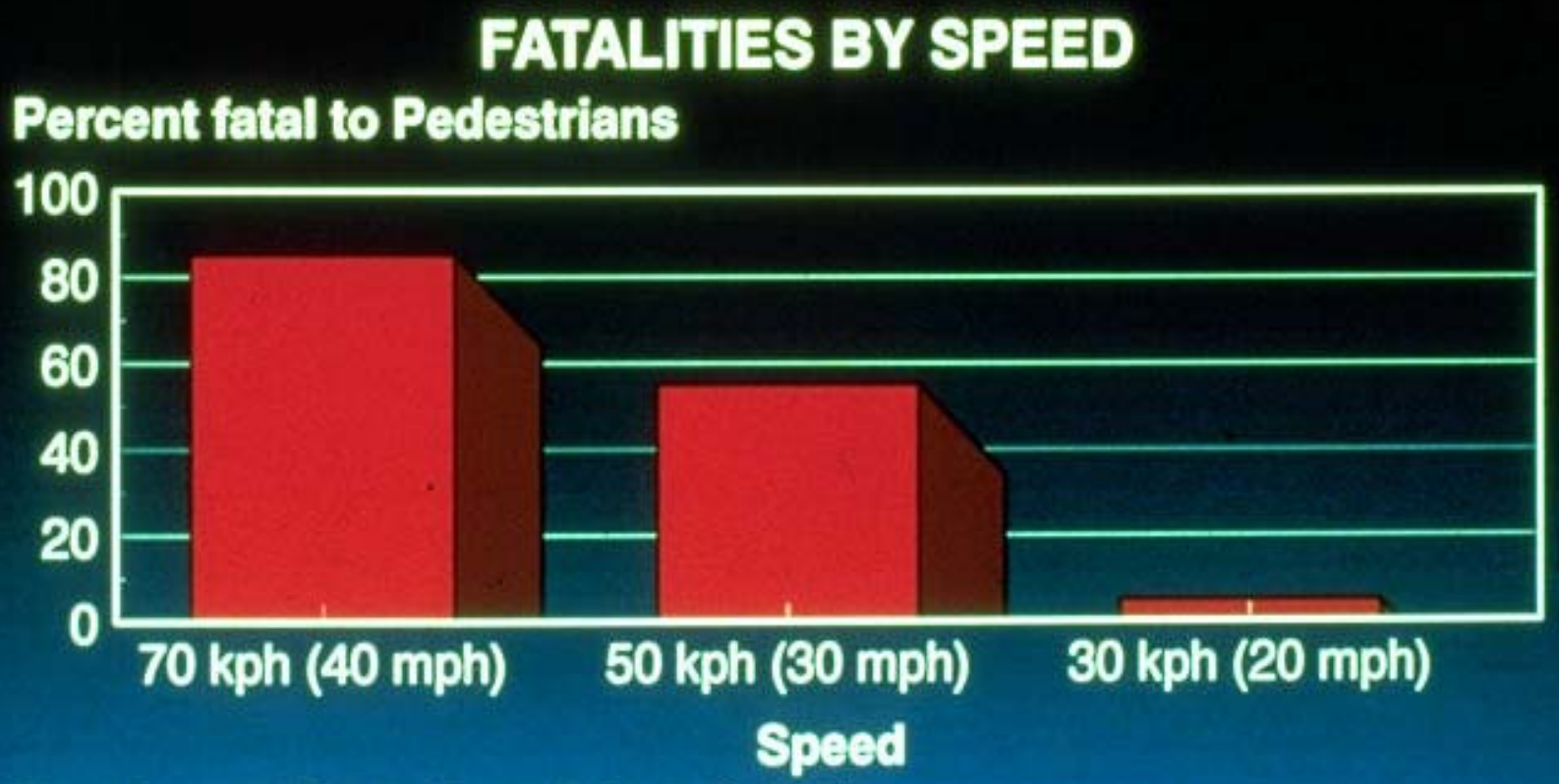
Hastings Square, Nunes Park, Pacific Street Park

Access to Parks

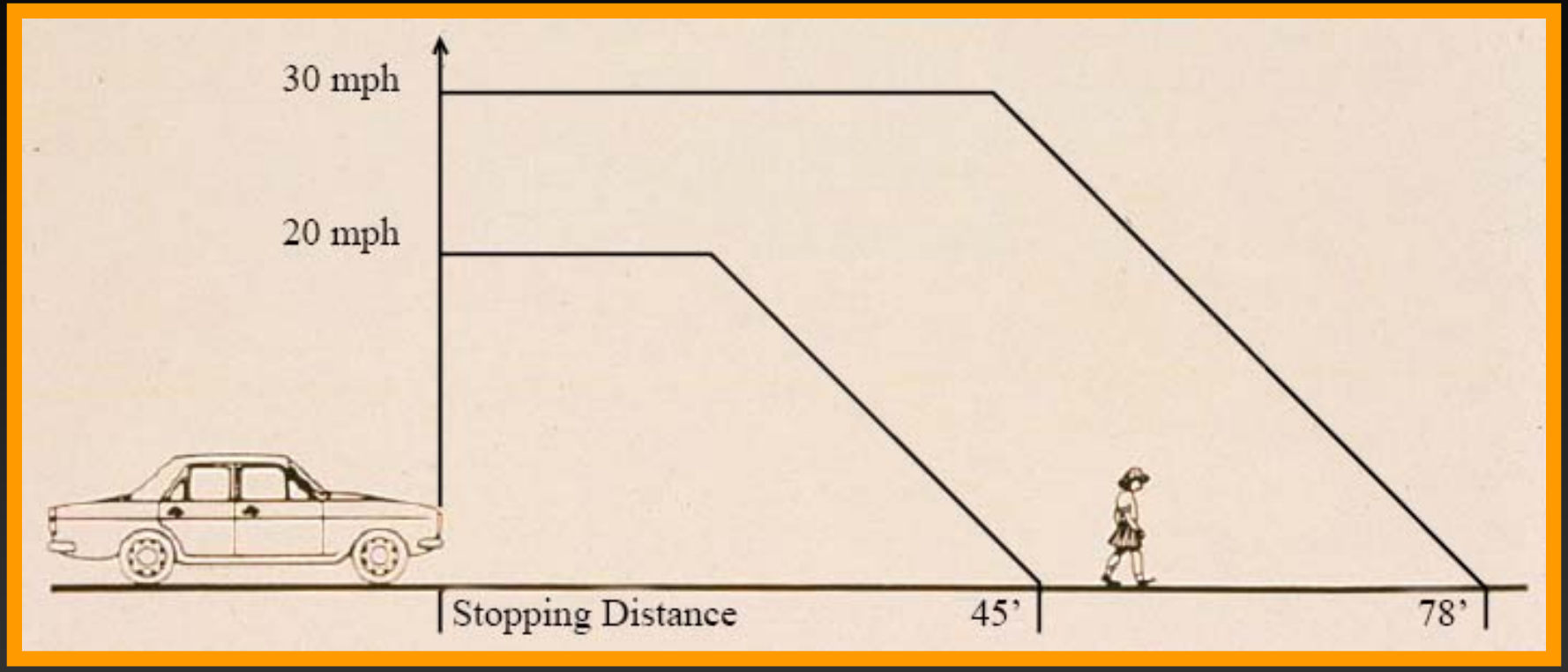
25
35V D35

Yo! Please Go Slow.

TRAFFIC CALMING



Slower Is Safer



Distance needed for a vehicle to stop vs. speed:
30 mph ======== Approximately 78 feet.
20 mph ======== Approximately 45 feet.

Pedestrian Safety: Speed as a Factor

150’

First scenario: Speed 25 MPH

100’ = distance covered in 2.5 sec. perception/reaction time

100’

150’

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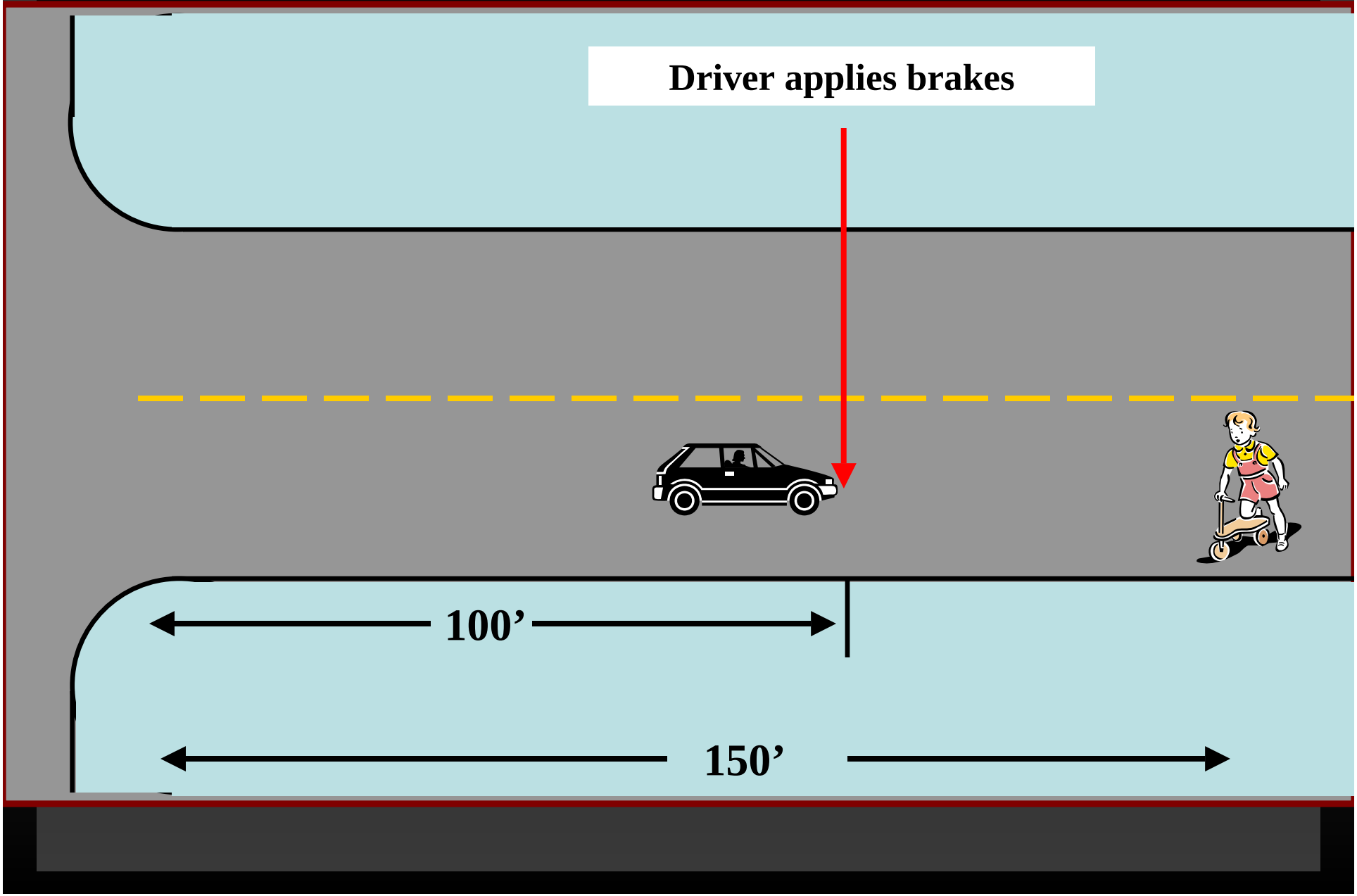

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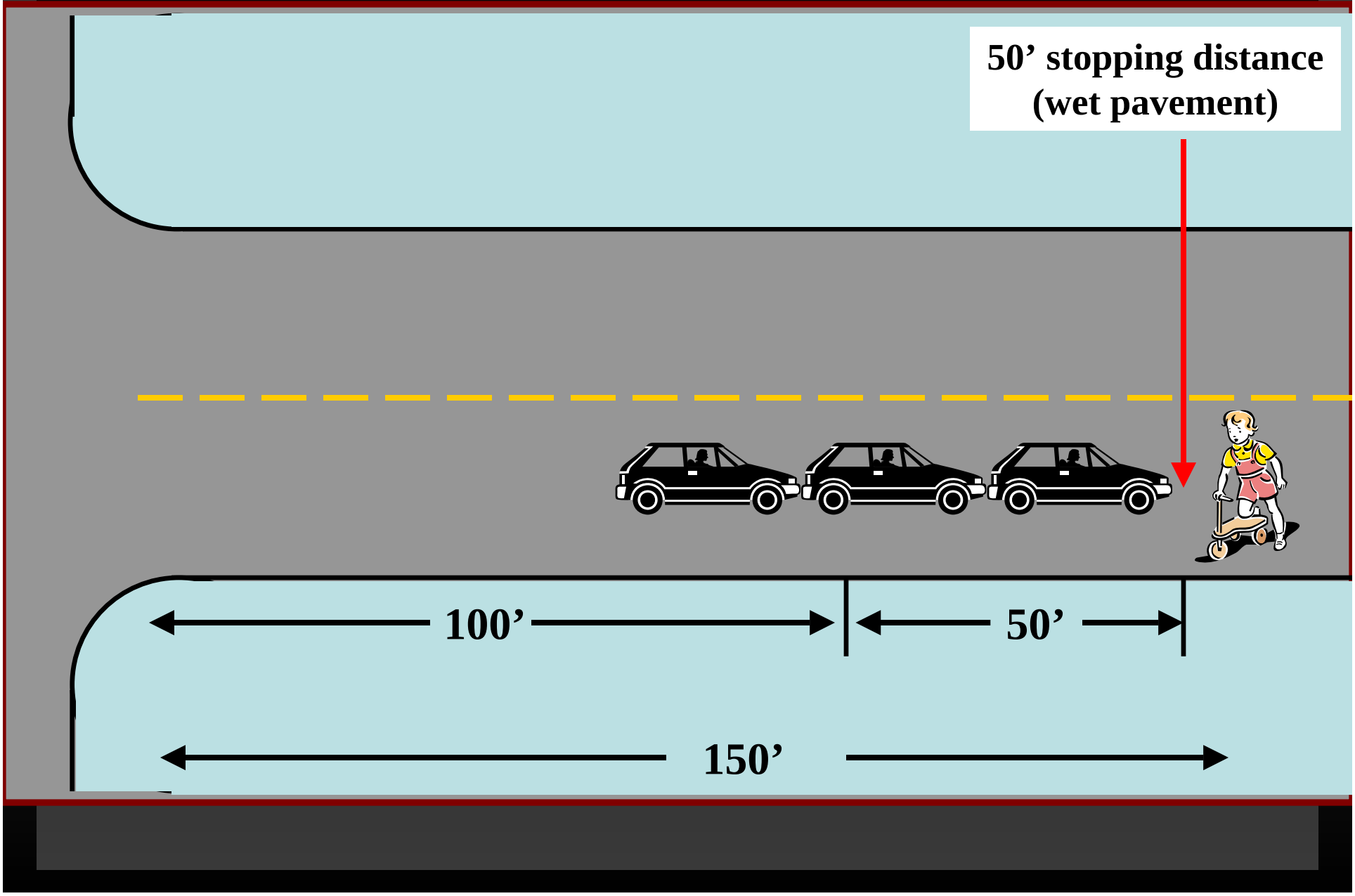
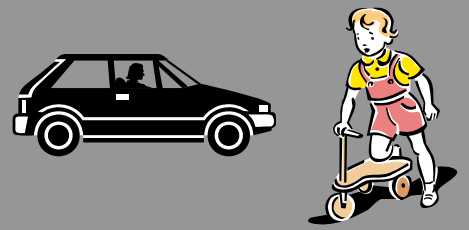


First scenario: Speed 25 MPH

Result: Nothing happens beyond one scared child, driver & parent!



100’ 50’

150’

Second scenario: Speed 38MPH

140’ = distance covered in 2.5 sec. perception/reaction time

140’

150’

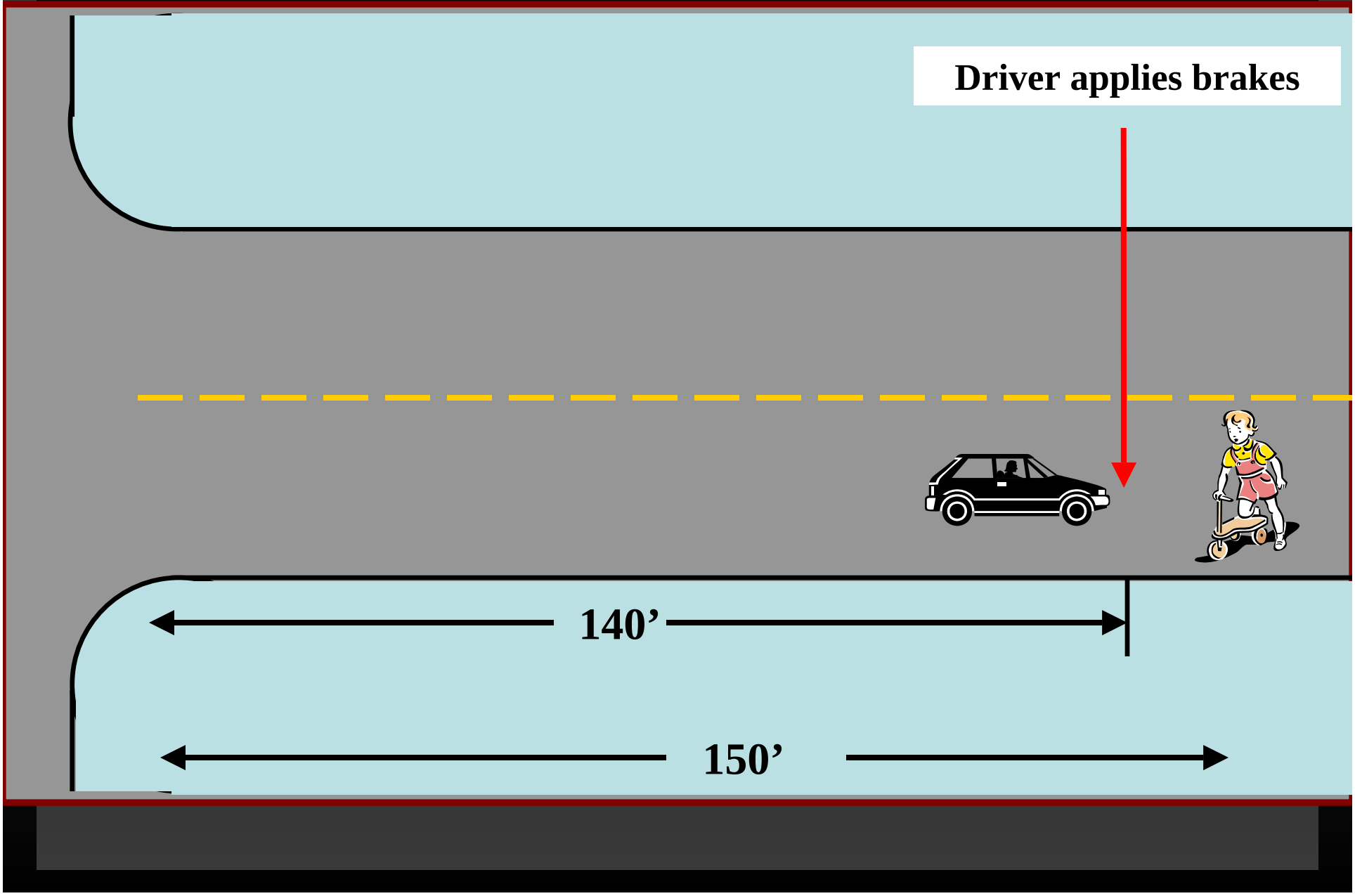
Second scenario: Speed 38MPH

140’ = distance covered in 2.5 sec. perception/reaction time

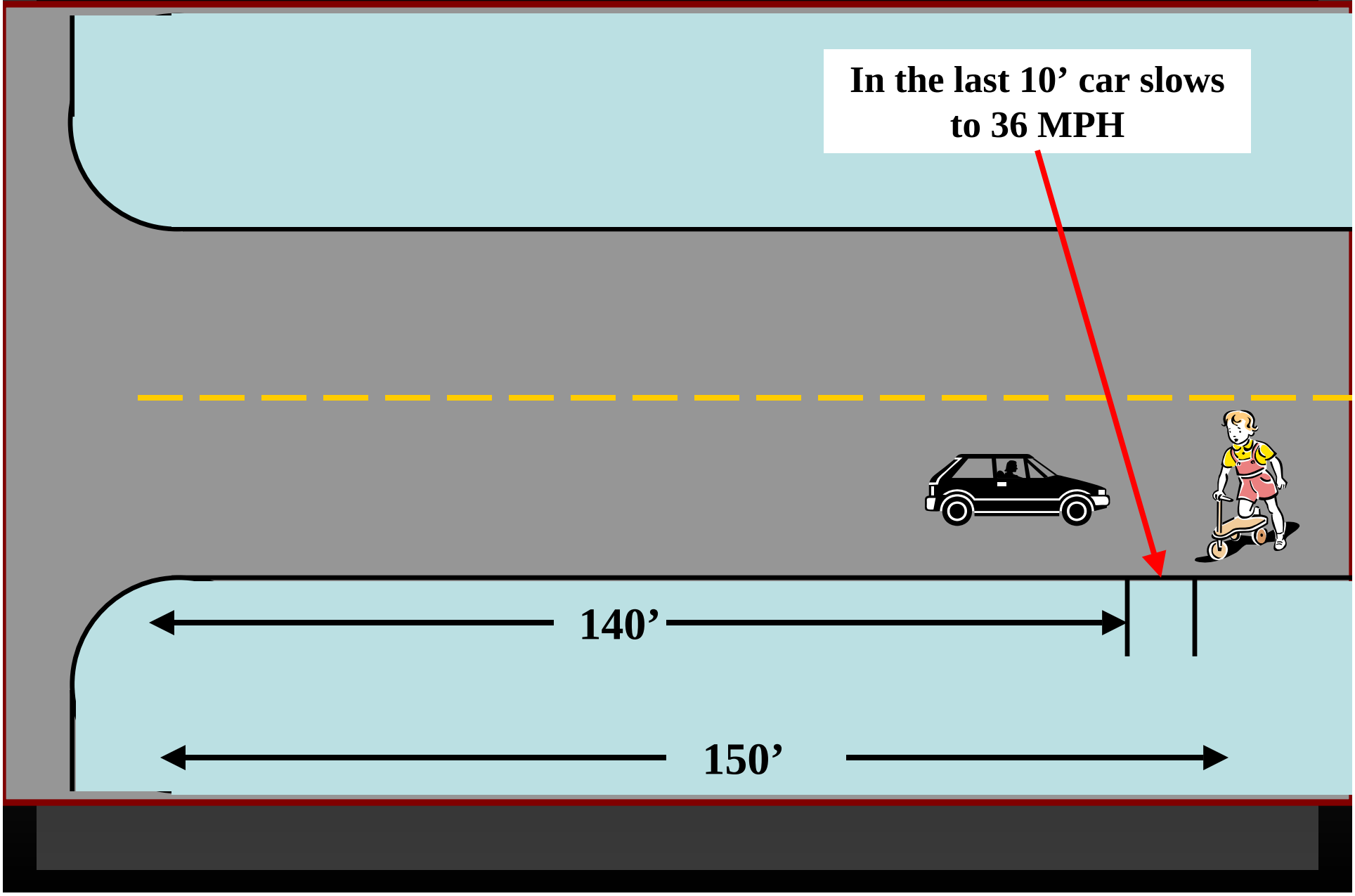
140’

150’

Second scenario: Speed 38MPH

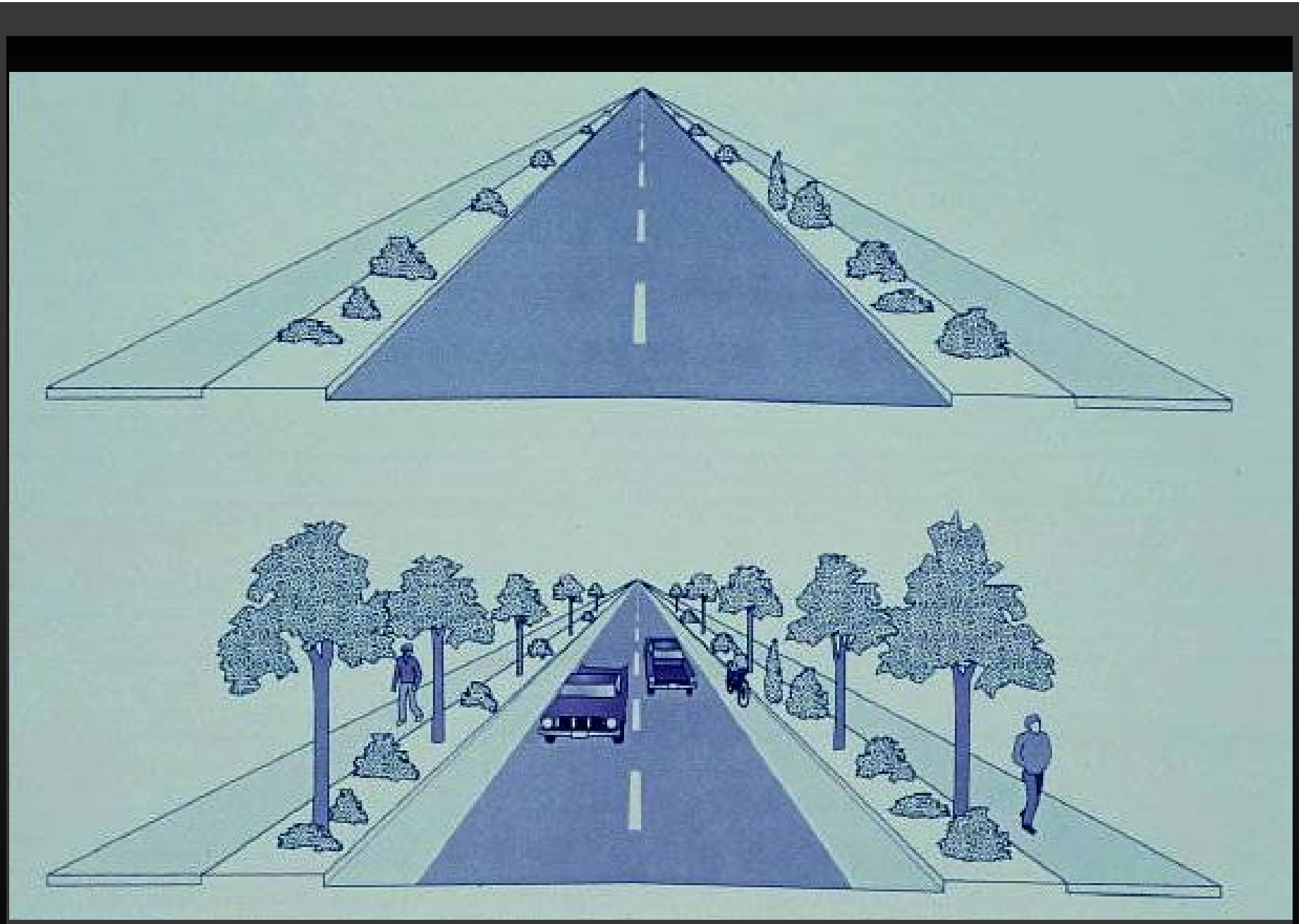


Second scenario: Speed 38MPH

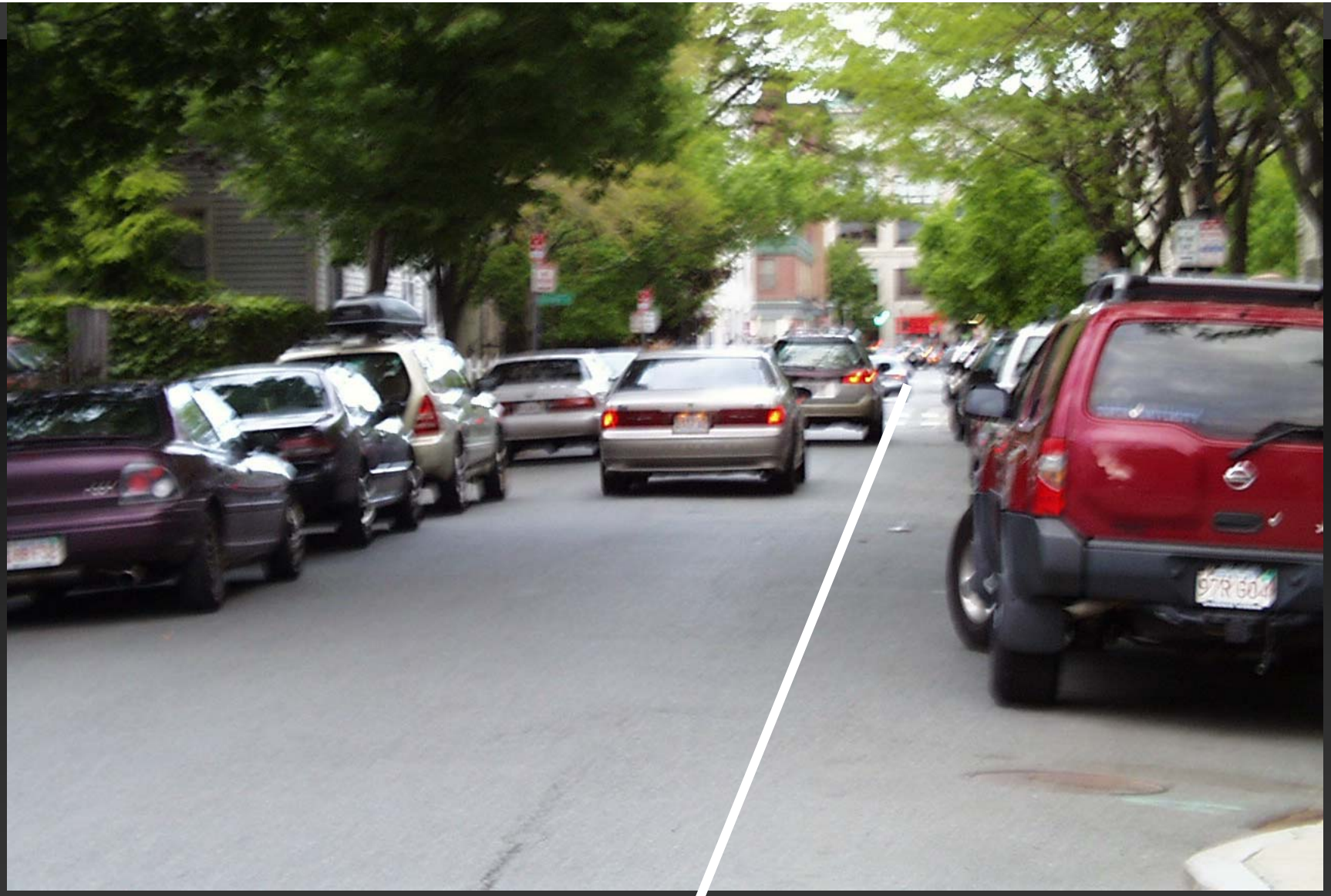


Traffic Calming

- Narrow the road
  - Add Parking
  - Pavement Markings (edge line for bikes)
  - Visual Narrowing by Adding Trees
- Horizontal Devices: make the road less straight
  - Chicanes
  - Crossing Islands
- Vertical devices: make vehicles go over something
  - Raised intersections & crosswalks

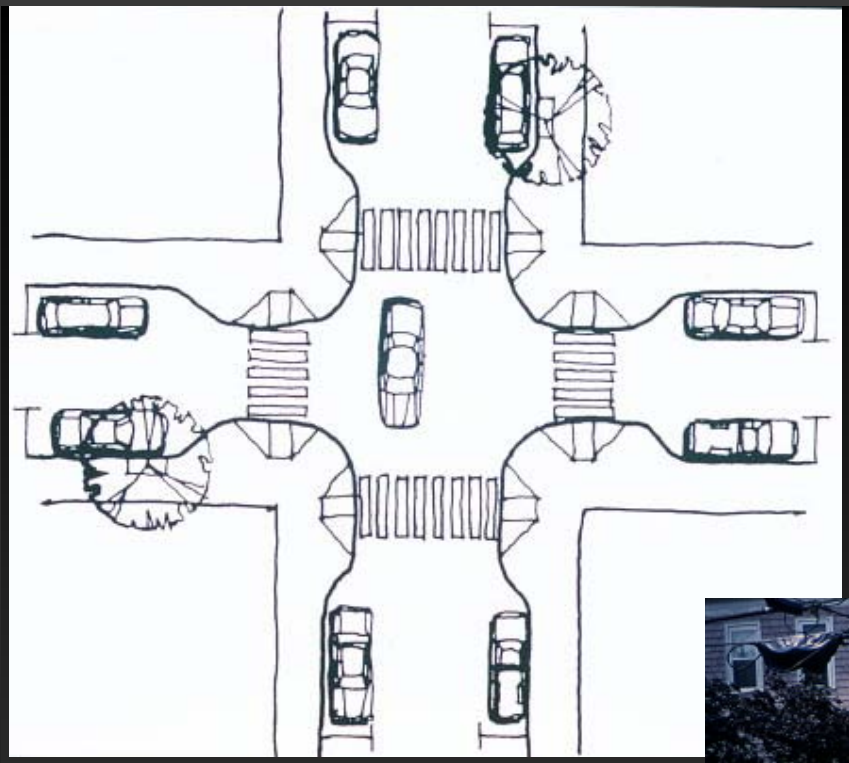


ROSE ROSIE
DINATALE SQ
VALENTINE

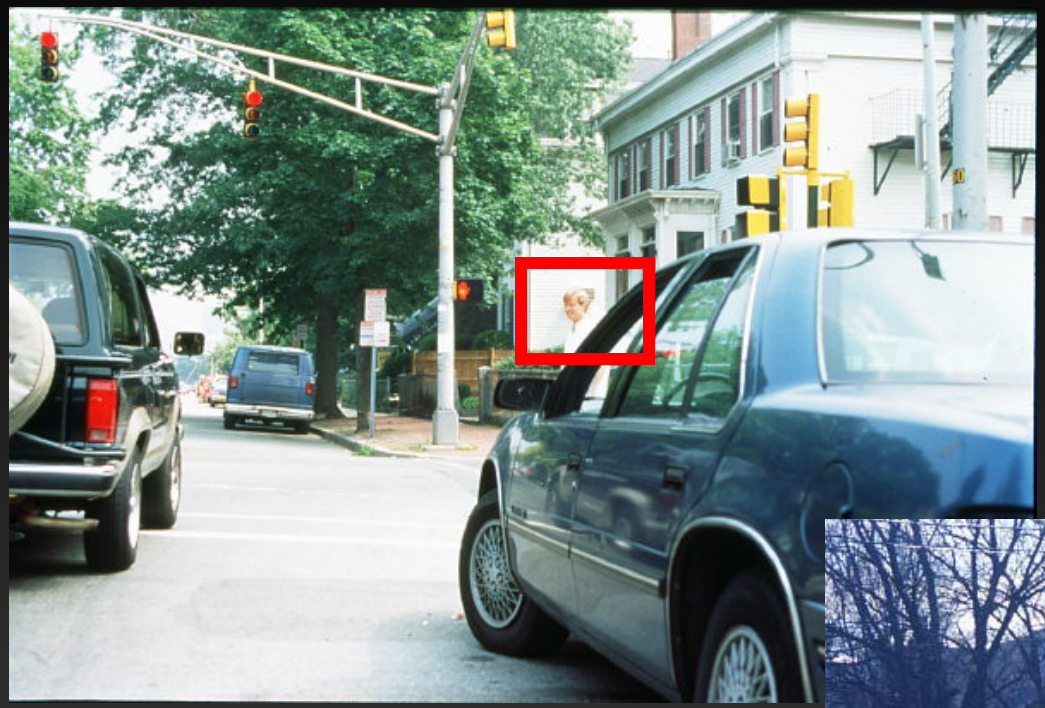


Edge Ledge Line Visually Narrows Road

Curb Extensions



Find the Pedestrian

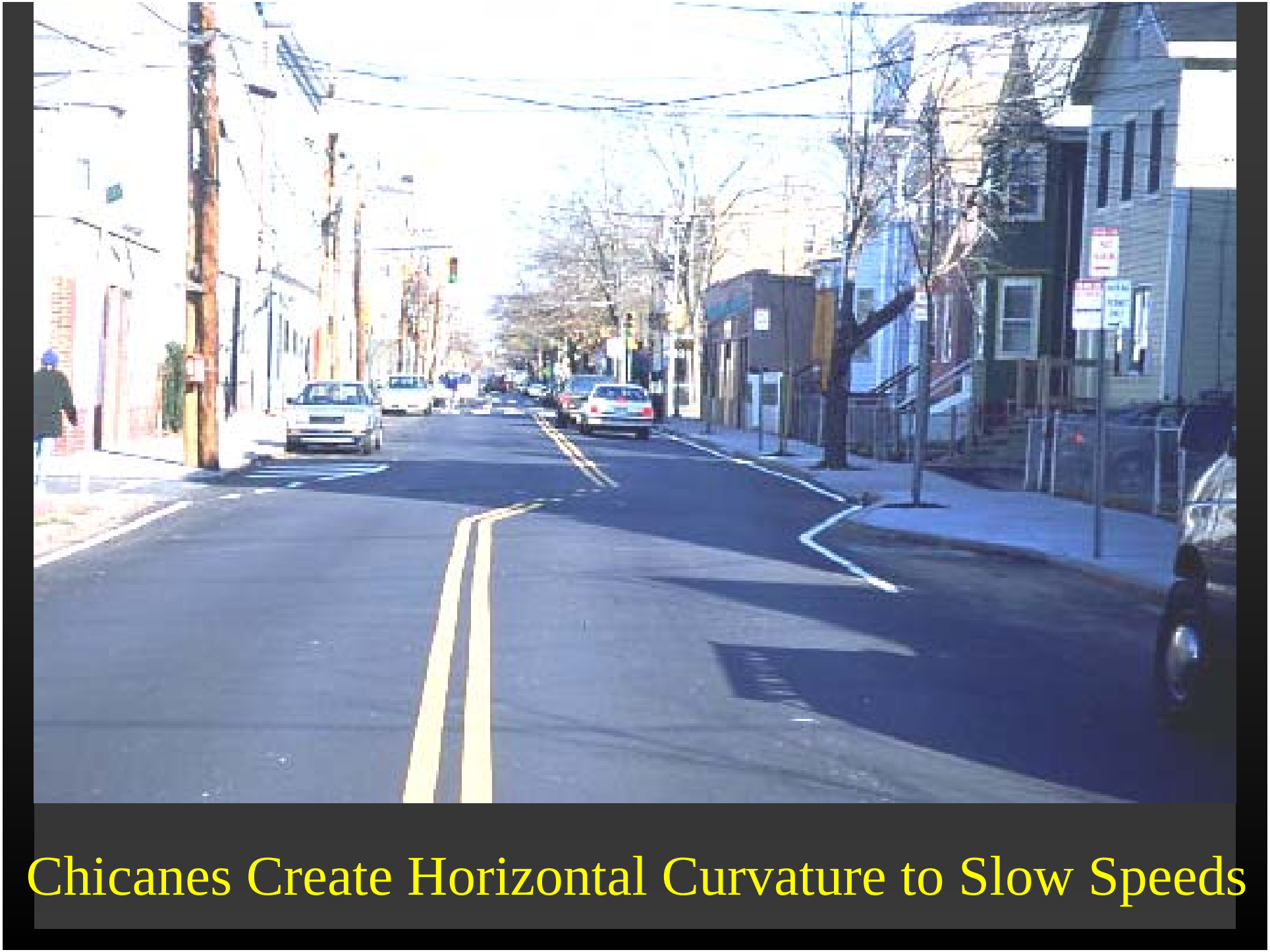


Curb extensions reduce crossing distances and improve visibility

A place for street furniture

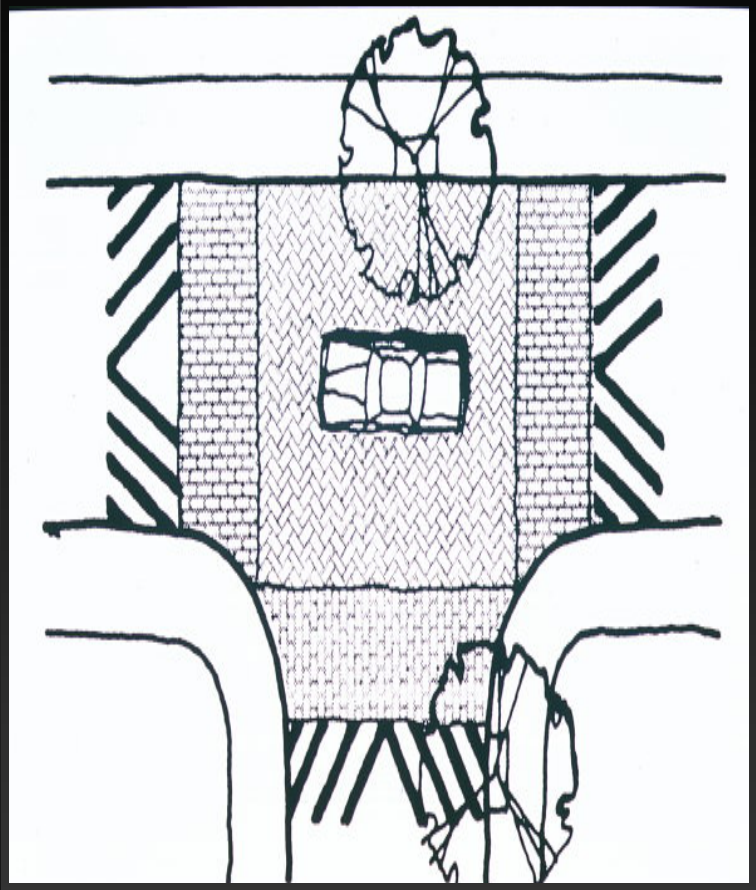
CAMBRIDGE

Chicanes



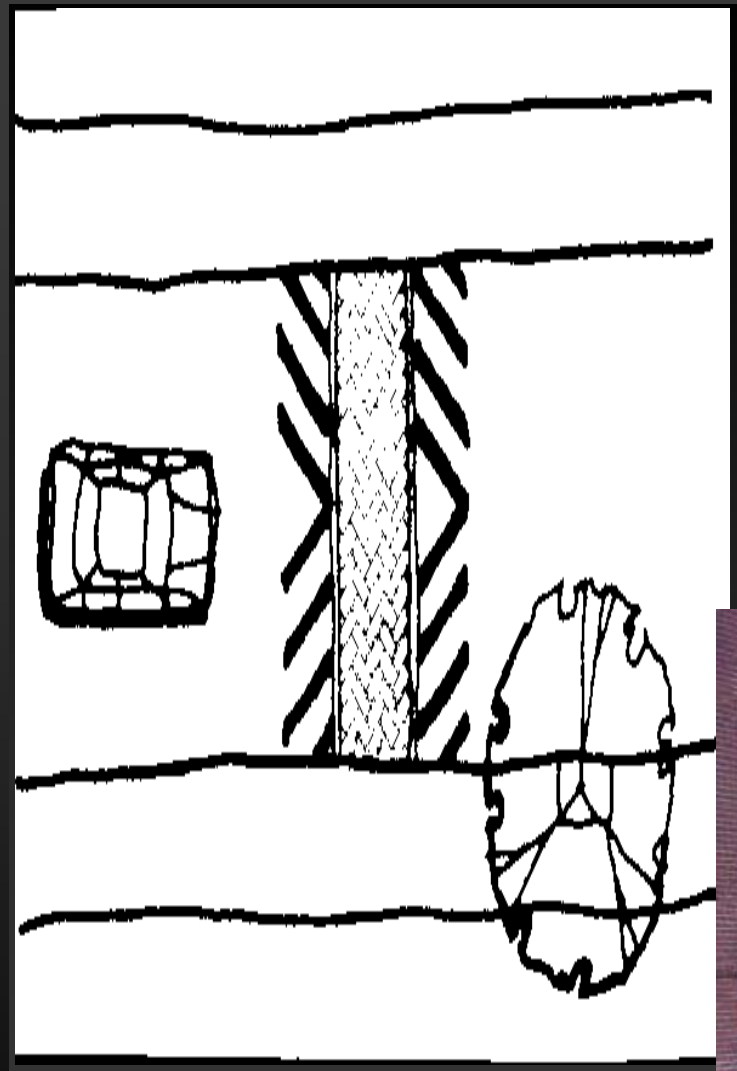
Chicanes Create Horizontal Curvature to Slow Speeds

Raised intersection



YERKA RD
ROYAL WHITE
CLINERS

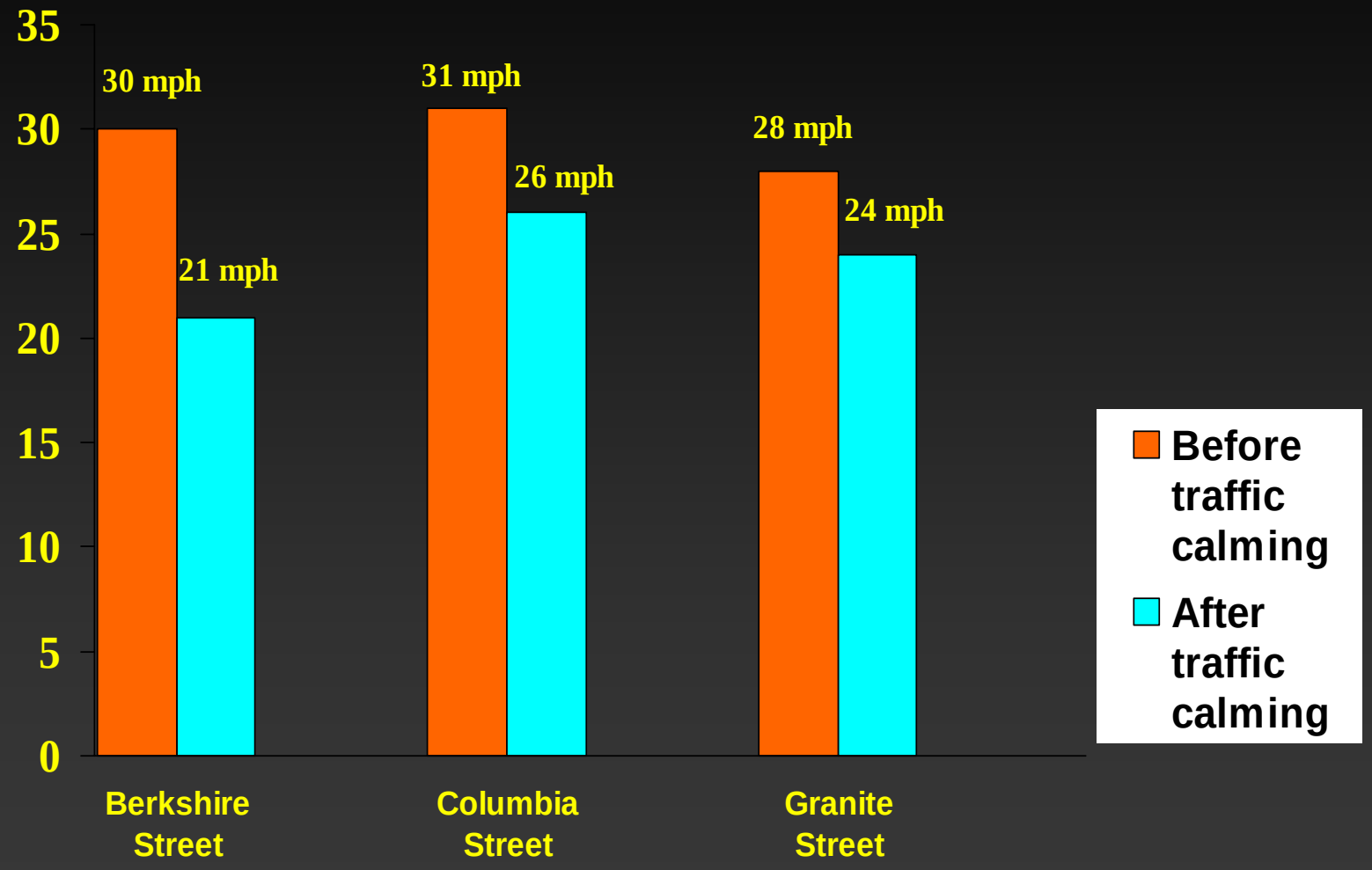
Raised Crosswalk



BLAKE ST
ORCHARD ST
78
Fellon

CAMBRIDGE
L 4
LADDER
4
CAMBRIDGE LADDER

Effects of traffic calming projects on speeds



Brookline Street Speeds

(at Tudor St)

7-8 AM 30mph

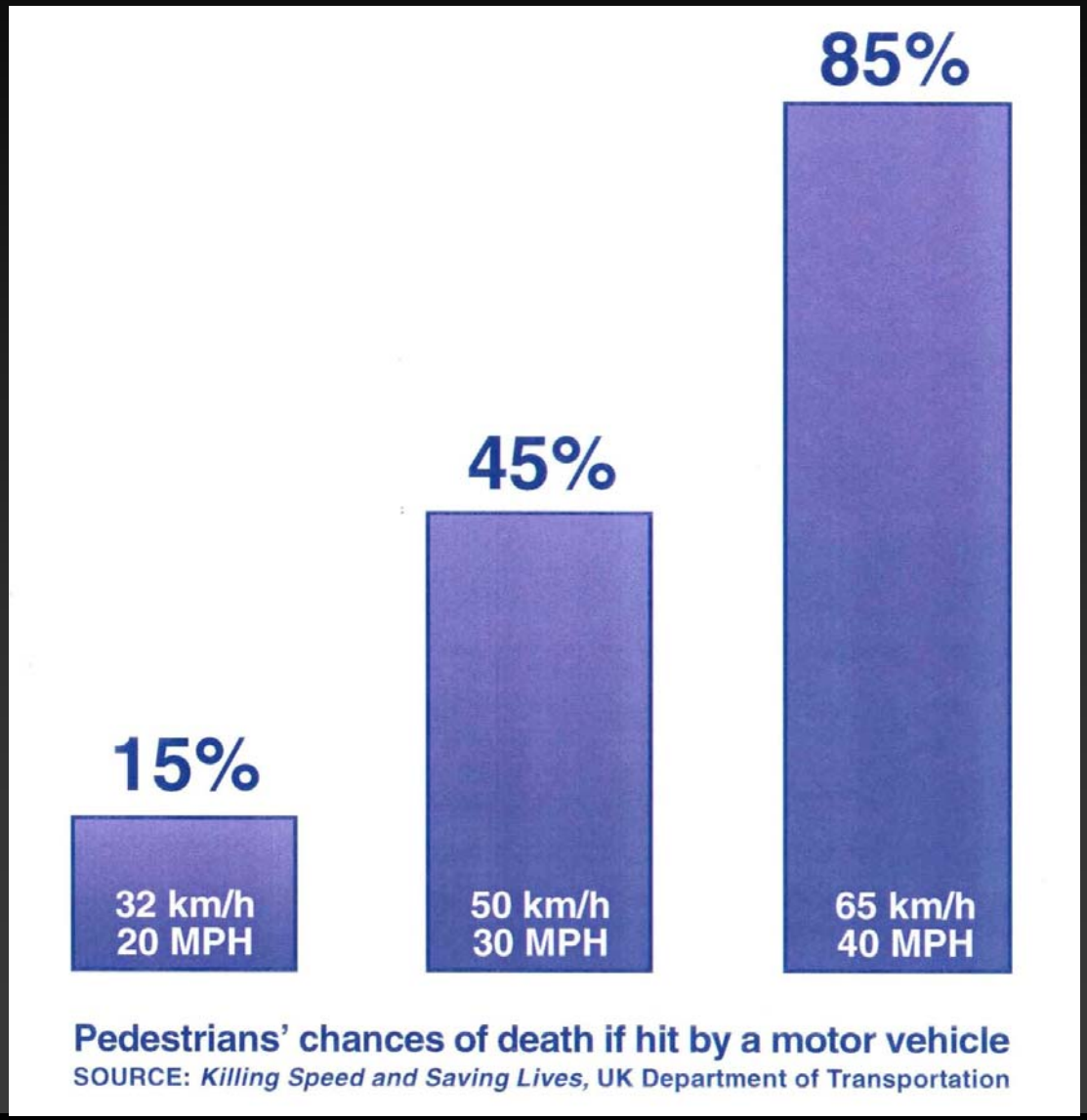
2-3 PM 28 mph

Speed Limit

More than safety

GIANT
YARD SALE

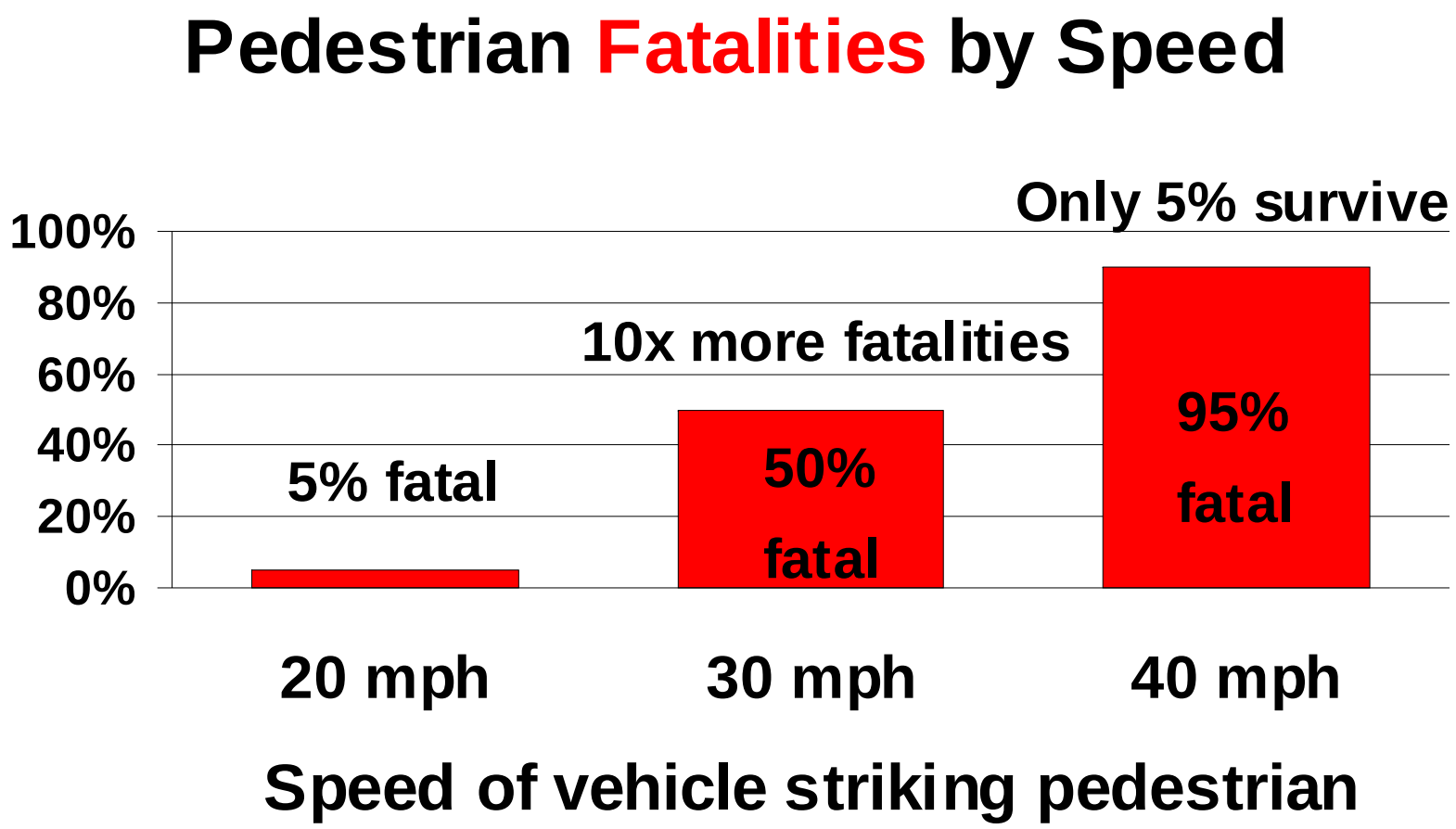
The relationship between speed and severity of ped/vehicle crashes

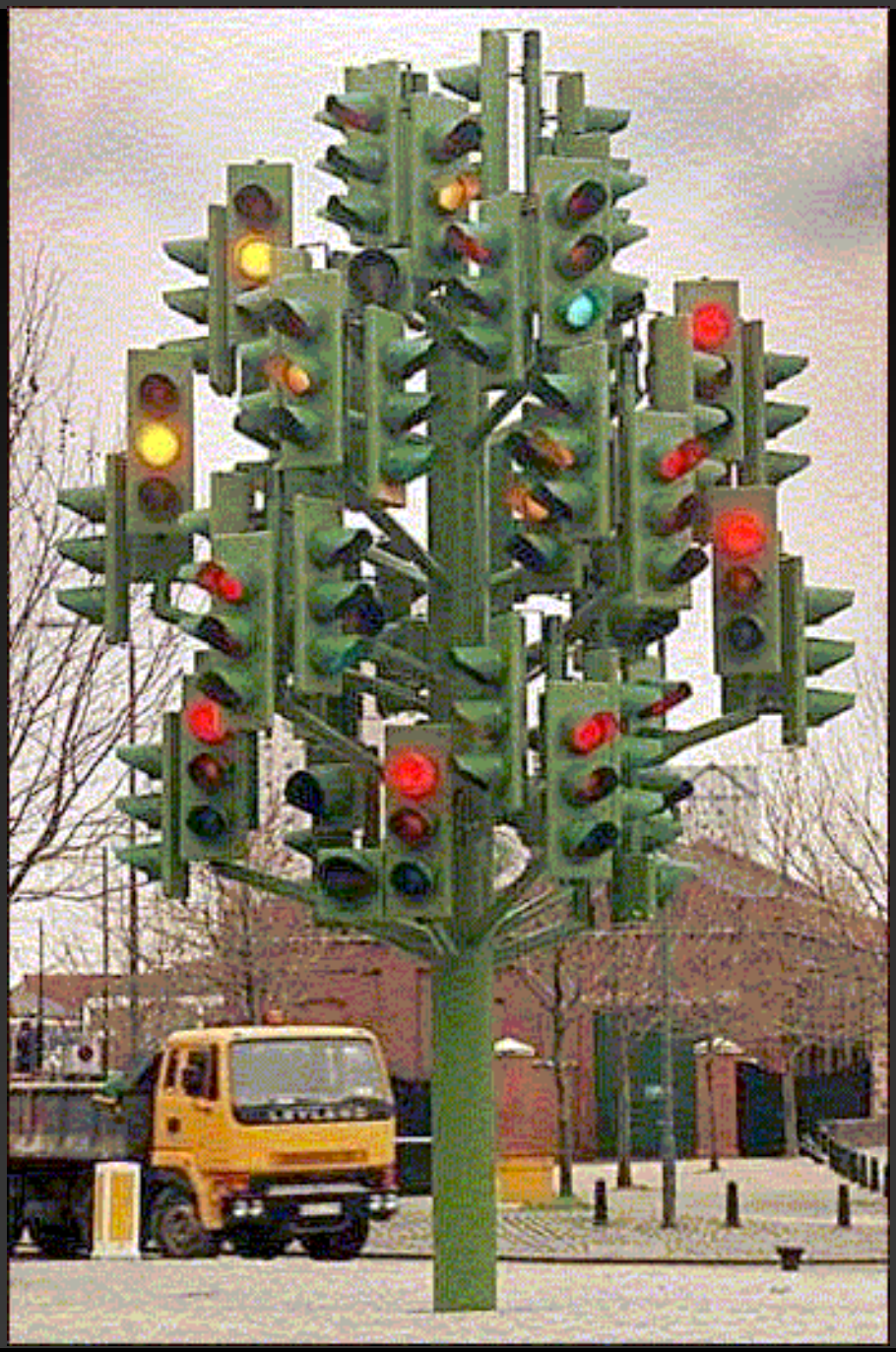
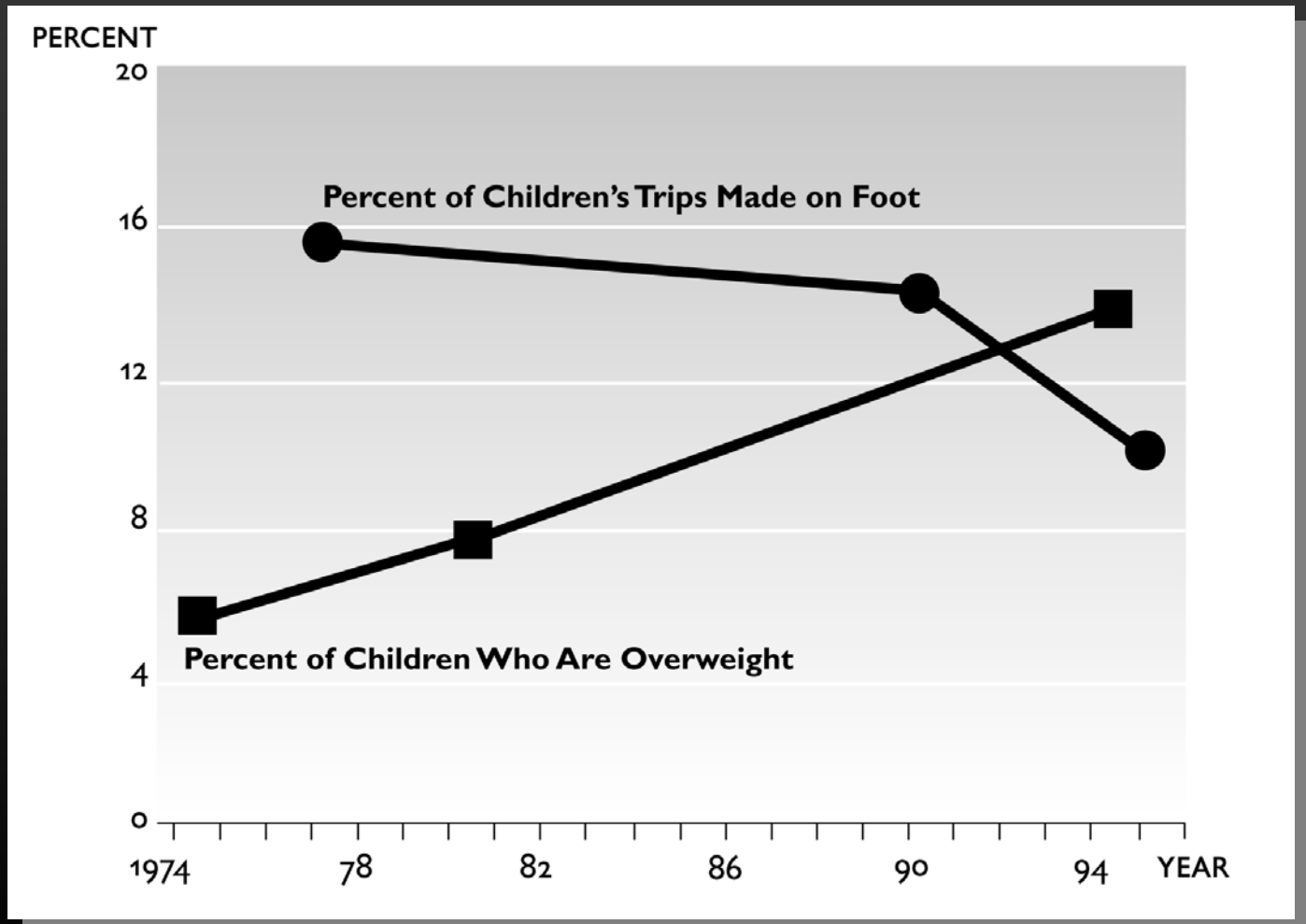


Pedestrians' chances of death if hit by a motor vehicle

SOURCE: *Killing Speed and Saving Lives*, UK Department of Transportation

Moderate Speeds Kill Pedestrians





Children Walk Less and Weigh More